Zed-BULL VAG OBD-F

User Manual

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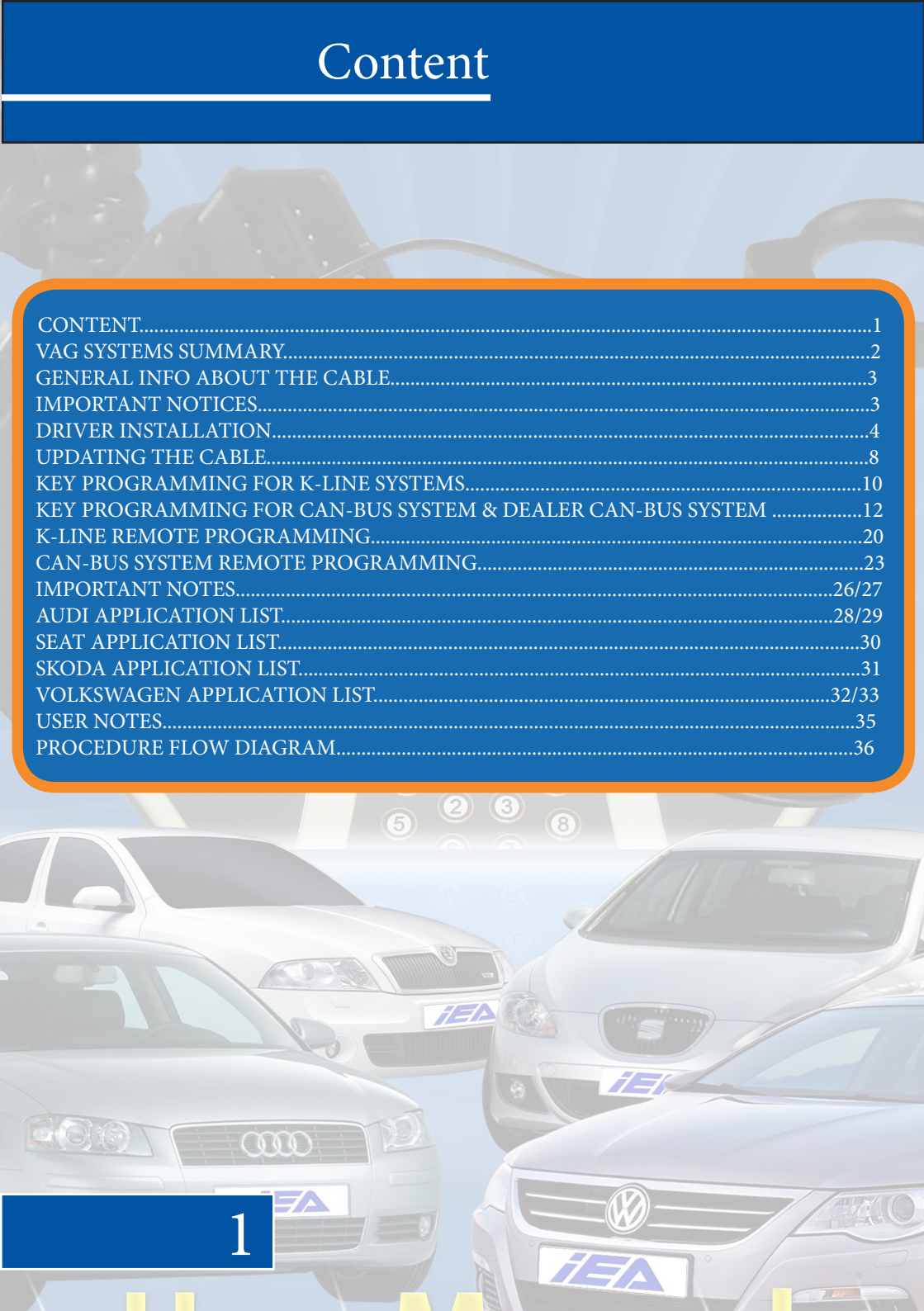


VAG SYSTEMS SUMMARY

K-Line SYSTEMS:

SYSTEM 1 : Vehicles equipped with this system use 33 transponders.
SYSTEM 2 : Vehicles equipped with this system use 42 transponders
SYSTEM 3 : Vehicles equipped with this system use 44 transponders
SYSTEM 4 : Vehicles equipped with this system use 48 megamos or philips 46 transponders

CAN-BUS SYSTEM : Vehicles equipped with this system use 48 megamos Can-Bus transponder. Each vehicle group has its own transponder like; VW Can-Bus, Audi Can-Bus, Skoda Can-Bus, Seat Can-Bus. A blank VW Can-Bus transponder can be used for any VW vehicle equipped with can bus system(excluding dealer can bus system), same applies for Audi, Skoda and for Seat.

DEALER CAN-BUS SYSTEM : With this system regular 48 megamos transponder can never be used or 48 megamos Can-Bus transponders can not be used as blank. Transponder precoding information must be taken from the vehicle, each individual vehicle has its own precoding information, due to this fact a blank can-bus transponder can not be used for any vehicle equipped with delaer can-bus system. Specific precoding information should be written to can-bus transponder.

WHAT IS AN ECU ?

ECU stands for Electronic control unit and controls all electronic activities on the vehicle. Mostly, data related with immobiliser is present in this unit, due to this fact communication with this unit through OBD is necessary. If there is no communication through OBD, related IC(eeprom or processor) should be read to get the immobiliser data. Here is the list of ECUs present in VAG cars:

-EDC15
-EDC16
-EDC17
-ME7.1.1
-ME7.5
-ME7.8
-MED9.5.10
-MED9.1
-MED17
-Simos Ppd1.x
-Simos 7.1

WHAT IS A CS ?

CS is known as component security. Component security is the data taken from the car to prepare transponder for Dealer Can-bus system cars, this data is taken from the vehicle sometimes as 7 bytes(14 digits) sometimes as 6 bytes(12 digits), CS is always displayed 14 digits, if last 2 digits are “00” this means CS is 6 bytes(12 digits). CS is mostly present in ECU, and sometimes in the dashboard.

GENERAL INFO ABOUT THE CABLE

-It can extract pin code through the OBD.

-It can generate transponder from 6 byte CS with the help of external antenna.

-It can programme keys and remotes for K-Line systems, Can-bus systems and dealer can bus systems, with another saying, it can programme Vag cars with 48 megamos, 48 can-bus and 48 dealer can-bus transponders.

-It works only with Zed-BULL key programming tool, can not be used with pc or as a stand alone machine.

-It is upgradable and new developments can be loaded to the cable with an update file.

IMPORTANT NOTICES

- There is no "Add key" function with all VAG cars, according to the procedure all keys are deleted and new ones are added respectively. In example, if the car has 1 working key and a spare key will be programmed, the number of keys to be programmed should be choosen as "2". If the car has a working key always start programming with the working key. If you do not have a working key, channel maybe blocked for five minutes before programming.

-Each time at least 1 key and at most 8 keys can be programmed to a VAG vehicle.

-If a wrong pincode is sent to a VAG vehicle 3 times in a row, the car will block itself and all keys will stop working temporarily. If this is the case, leaving the ignition on for 35 minutes will unblock the ECU and everything will turn to normal. If attemps on a blocked ECU continues, unblocking it may take up to 1-2 days.

-If wrong type of transponder is used on a Can-bus car programming may continue without any problem but at the end of process, due to wrong transponder usage, key will not be actually programmed.

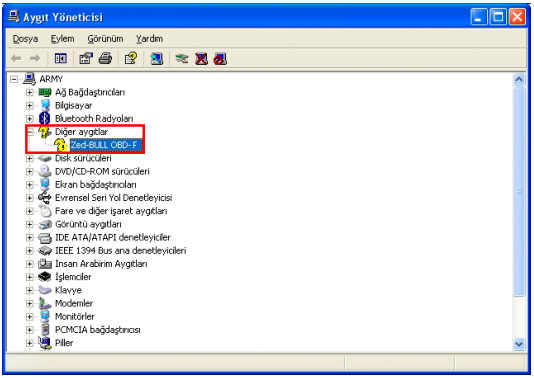
-If the cable is connected to the OBD port of the vehicle and the engine is started K-line pin of the cable may be damaged, in order not to face with this kind of problem, it is highly recommended not to start the engine while the cable is connected to OBD.

-In example If number of keys to be programmed is choosen as 3 and total 2 keys are programmed, the procedure will not end successfully and none of the keys will work, so all keys must be programmed as it is choosen at the beginning.

DRIVER INSTALLATION

Necessary drivers for the Zed-BULL VAG OBD-F cable is loaded as described below:

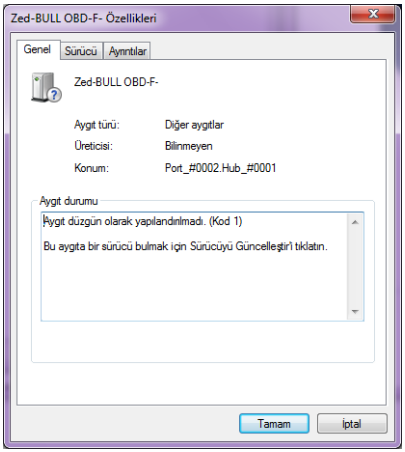
NOTE : Driver installation is done just for once for each computer.

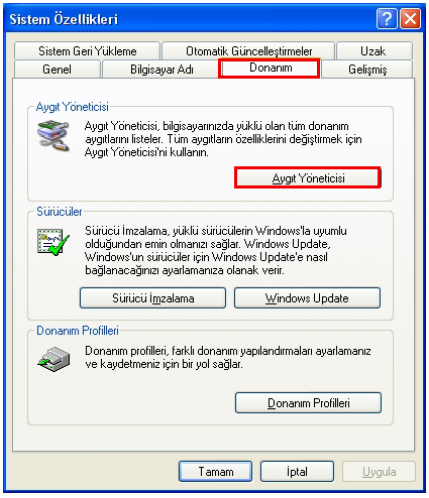


connect your OBD cable to the Pc using the usb cable supplied to you with Zed-BULL.

If you are using Windows XP:

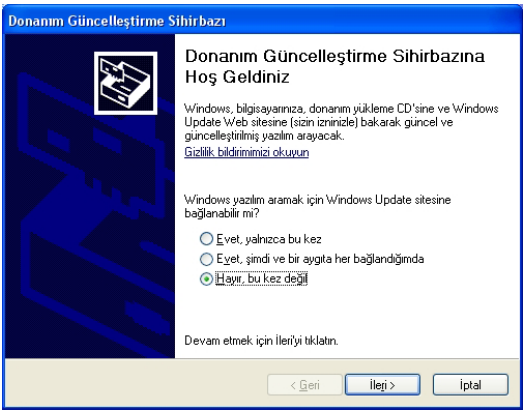
1) Right click on “my computer” icon, choose “properties” and then click hardware tab and click device manager button.
2)Find Zed-BULL OBD-F under other tools, or usb devices. Double click on it.
3)Click reload on hardware properties window.



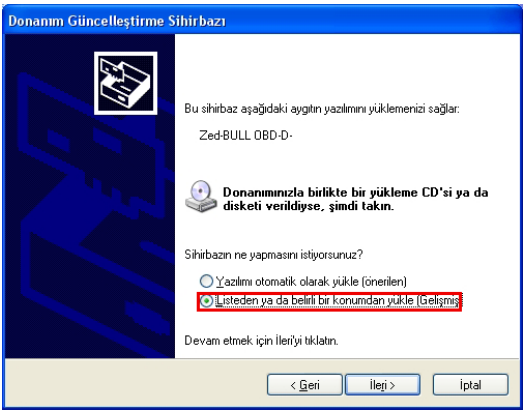


Driver Installation

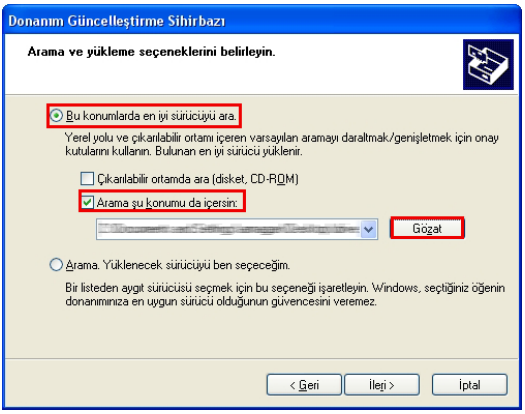
4) A new window will show up as in the picture below; choose no, not this time and click next.


Donanım Güncelleştirme Sihirbazı
Donanım Güncelleştirme Sihirbazına Hoş Geldiniz
Windows, bilgisayarınıza, donanım yükleme CD'sine ve Windows Update Web sitesine (sizin izininizle) bakarak güncel ve güncelleştirilmiş yazılım arayacak.
Gizlilik bildirimimizi okuyun
Windows yazılım aramak için Windows Update sitesine bağlanabilir mi?
Evet, yalnızca bu kez
Evet, şimdi ve bir aygıta her bağlandığımda
Hayır, bu kez değil
Devam etmek için İleri'yi tıklatın.
< Geri
İleri >
İptal

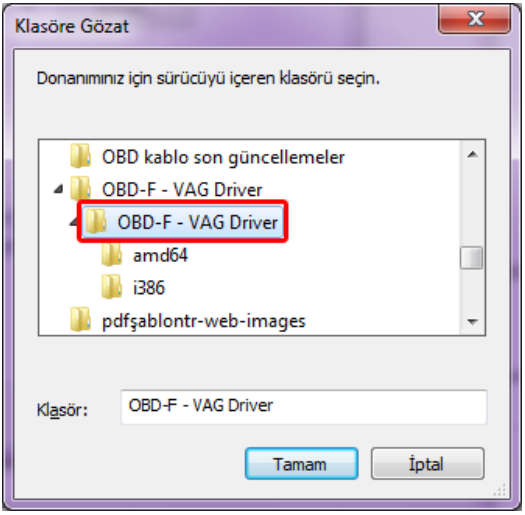
5) Choose the option as seen in the picture below.


Donanım Güncelleştirme Sihirbazı
Bu sihirbaz aşağıdaki aygıtın yazılımını yüklemenizi sağlar:
Zed-BULL OBD-D-
Donanımınızla birlikte bir yükleme CD'si ya da disketi verildiyse, şimdi takın.
Sihirbazın ne yapmasını istiyorsunuz?
Yazılımı otomatik olarak yükle (önerilen)
Listeden ya da belirli bir konumdan yükle (Gelişmiş)
Devam etmek için İleri'yi tıklatın.
< Geri
İleri >
İptal

6) Click search button and choose the driver folder where it is located in your harddrive.


Donanım Güncelleştirme Sihirbazı
Arama ve yükleme seçeneklerini belirleyin.
Bu konumlarda en iyi sürücüyü ara.
Yerel yolu ve çıkarılabilir ortamı içeren varsayılan aramayı daraltmak/genişletmek için onay kutularını kullanın. Bulunan en iyi sürücü yüklenir.
Çıkarılabilir ortamda ara (disket, CD-ROM)
Arama şu konumu da içersin:
Gözat
Arama. Yüklenecek sürücüyü ben seçeceğim.
Bir listeden aygıt sürücüsü seçmek için bu seçeneği işaretleyin. Windows, seçtiğiniz öğenin donanımınıza en uygun sürücü olduğunun güvencesini veremez.
< Geri
İleri >
İptal

And click “OK” .

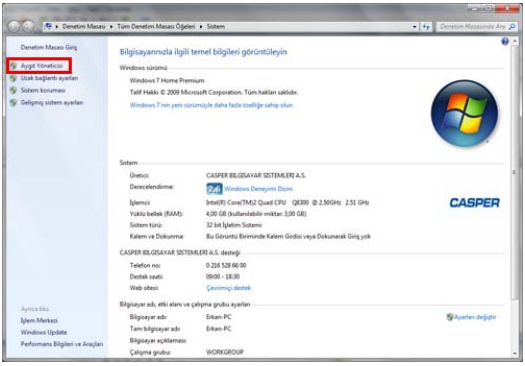


7) Click “finish” to end driver installation process.

If you are using Windows Vista or Windows7:

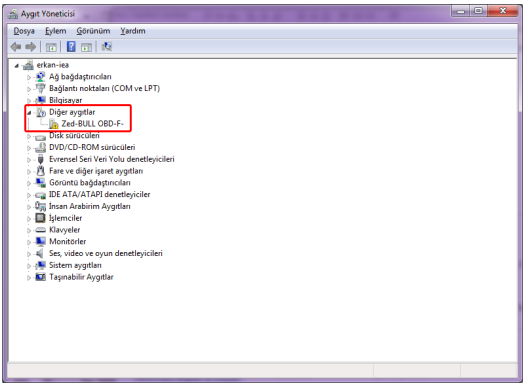
1) Right click on My computer icon, choose properties and click. system properties window will show up, click Device manager as shown in the picture below.

2) Find Zed-BULL OBD-F hardware on the

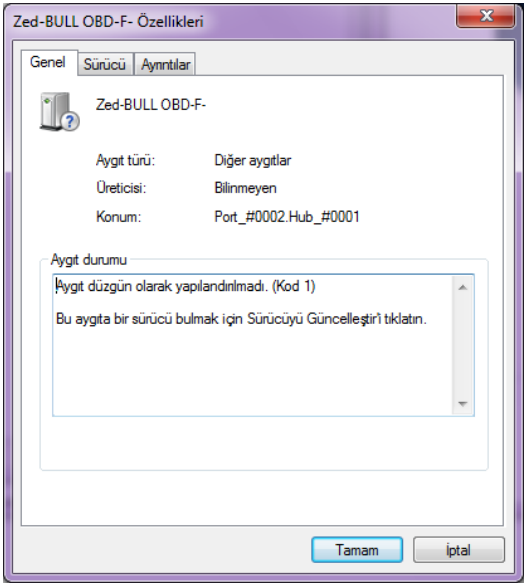


device manager window and double click on the icon

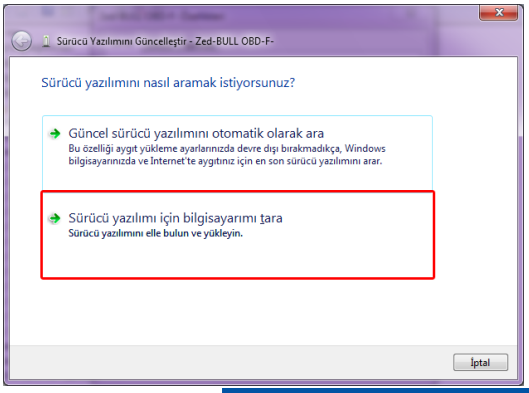
3) Click update driver button.



4) See the figure below and choose the option

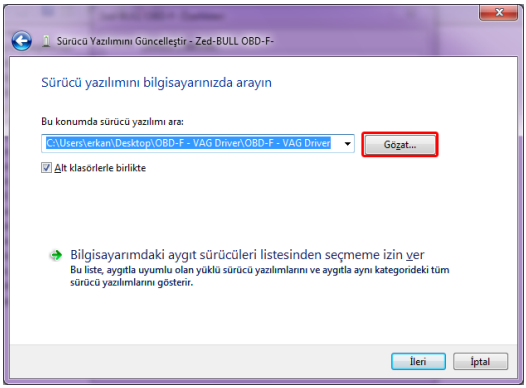


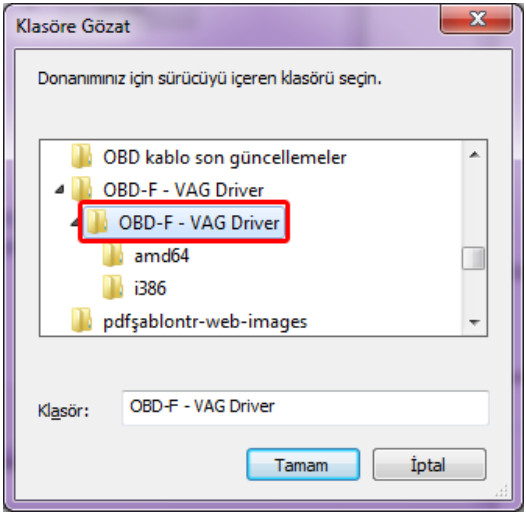
as highlighted in red.


Sürücü Yazılımını Güncelleştir - Zed-BULL OBD-F-
Sürücü yazılımını nasıl aramak istiyorsunuz?
Güncel sürücü yazılımını otomatik olarak ara
Bu özelliği aygıt yükleme ayarlarınızda devre dışı bırakmadıkça, Windows bilgisayarınızda ve İnternet'te aygıtınız için en son sürücü yazılımını arar.
Sürücü yazılımı için bilgisayarımı tara
Sürücü yazılımını elle bulun ve yükleyin.
İptal

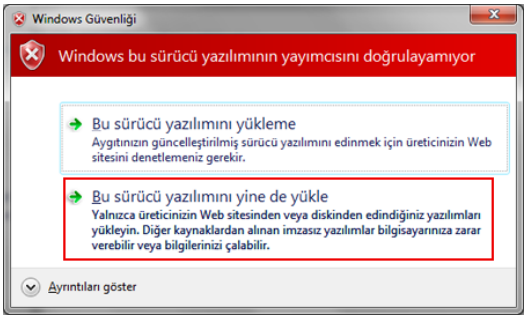
Driver Installation

5) Click search button and choose the driver folder where it is located in your harddrive.

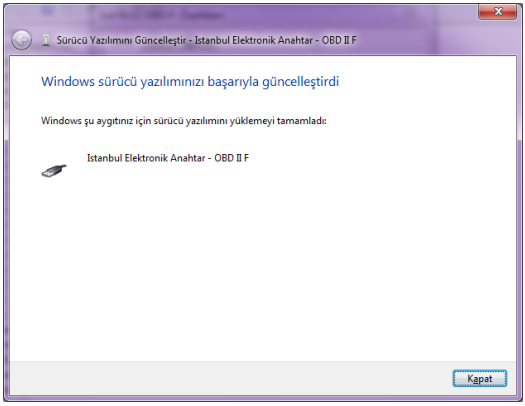

Sürücü Yazılımını Güncelleştir - Zed-BULL OBD-F-
Sürücü yazılımını bilgisayarınızda arayın
Bu konumda sürücü yazılımı ara:
C:\Users\erkan\Desktop\OBD-F - VAG Driver\OBD-F - VAG Driver
Gözat...
Alt klasörlerle birlikte
Bilgisayarımdaki aygıt sürücüleri listesinden seçmeme izin ver
Bu liste, aygıtla uyumlu olan yüklü sürücü yazılımlarını ve aygıtla aynı kategorideki tüm sürücü yazılımlarını gösterir.
İleri
İptal



6) If you meet with a warning message as displayed in the picture click continue anyway button and continue with the installation.


Windows Güvenliği
Windows bu sürücü yazılımının yayımcısını doğrulayamıyor
Bu sürücü yazılımını yükleme
Aygıtınızın güncelleştirilmiş sürücü yazılımını edinmek için üreticinizin Web sitesini denetlemeniz gerekir.
Bu sürücü yazılımını yine de yükle
Yalnızca üreticinizin Web sitesinden veya diskinden edindiğiniz yazılımları yükleyin. Diğer kaynaklardan alınan imzasız yazılımlar bilgisayarınıza zarar verebilir veya bilgilerinizi çalabilir.
Ayrıntıları göster

7) If you see the window below it means installation is successfull and you can click close button.


Sürücü Yazılımını Güncelleştir - İstanbul Elektronik Anahtar - OBD II F
Windows sürücü yazılımınızı başarıyla güncelleştirdi
Windows şu aygıtınız için sürücü yazılımını yüklemeyi tamamladı:
İstanbul Elektronik Anahtar - OBD II F
Kapat

Updating the cable

Update

To update your Zed-BULL VAG OBD-F cable first you need to conenct the cable to pc. Please see the figure below.

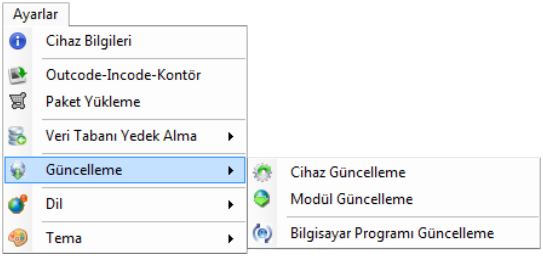
NOTE : You do not need to connect VAG OBD-F cable to pc other than updating.

Drivers need to be installed for the VAG cable to communicate with the pc.

while updating your VAG obd cable, just conenct the cable to your pc.**(do not connect your Zed-BULL to Pc, do not connect your OBD cable to Zed-BULL)**

Click settings tab on pc software and choose module update option.

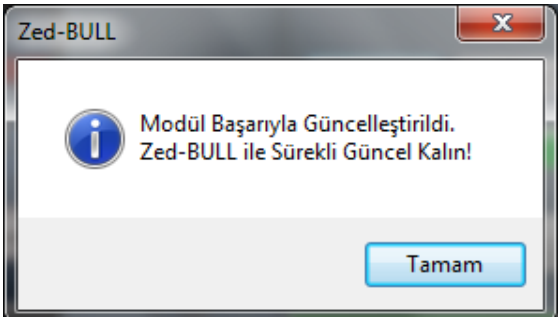
Choose VAG OBD-F from the dropdown menu



Click “Update Control” button. If there is a newer version you will get a message telling that there is a new update available, if there is no new update available again you will get a message telling that you are upto date.

Updating the cable

Click “OK” button after update is completed successfully.



Now you can remove your USB cable from your pc.

K - Line Key programming example(Golf 4 '97+)

1 - Connect your VAG OBD-F cable to your Zed-BULL.

2 -Turn the ignition on and connect the VAG OBD-F cable to the OBD port of the vehicle. If there is an existing working key, turn ignition on with this key, if there is not, use a key with blank 48 megamos transponder inside.

3 - Switch on the VAG obd cable. Zed-BULL will be fed from the vehicle's battery, so you do not need to apply external power to zed-bull using it's power adapter or cigar lighter adapter.

4 - Choose the 3 rd option on the main menu of Zed-BULL.

5- Choose the 10 th option on the new menu screen(please do not choose option 1 or 2, they are used for old VAG cable).

6 - Choose Volkswagen OBD.

7 - Choose the type of the vehicle from the list, here we select Golf 4 97+.

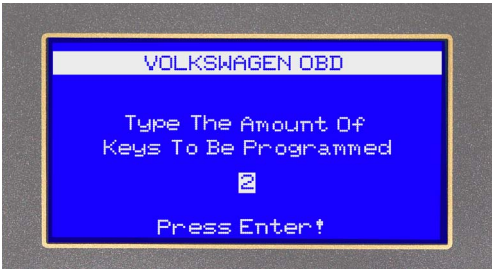
Key Programming

Communication between Zed-BULL and the OBD cable will be controlled first. when the version and the serial number of the cable is displayed, it means communication is successfull between Zed-BULL and the cable If your VAG OBD-F cable is switched on and is not communicating(saying "Waiting for module") with Zed-BULL, please report it to your supplier.

8 - Choose **KEY PROGRAMMING** option here. Remote programming will be explained in the following sections.

9 - Even there is a working key or working keys due to the procedure all keys will be deleted and will be reprogrammed with the new ones. There is only one option in the following menu and please choose it to proceed to the following steps.

10 - You need to type the total amount of keys(existing keys+new ones)here, in example; If customer has one key and wants 2 spare keys, type 3 and press ENTER button.



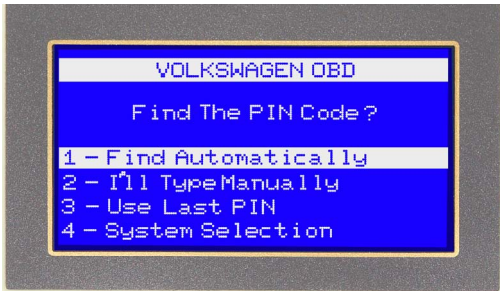
11 - If the ignition is off turn it on(do not start the engine) if it is already on, press ENTER button.

12 - If you already have the pin code of the vehicle choose manual typing option if you do not have the pin code go to 13 th step.

A -) If the pin code you have has 4 digits choose “4 digits” if it has 5 digits choose “5 digits” option.

B -) After typing the pin code press ENTER.

13 - If you do not have the pin code choose “Find Automatically” option and press ENTER button.



14 - Here you may see just one pin code or more than one pin code, if the screen displays just one pin code press ENTER button. Rarely the cable may ask you to wait upto 2 hours to extract the pin code, if this is the case the cable will extract the pin code and will display on the screen.

Key Programming

15 - If more than one pincode is displayed on the screen note the pin codes to a piece of paper and then press ESC button and go back to the 12 th step. Here there is one point to be carefull about:

If wrong pin code is sent to the car respectively 3 times, the car will be blocked and you will need to leave ignition on for 35 minutes to unblock the car.

16 - After the correct pin code is sent to the vehicle as seen on the screen below, “all keys are deleted” expression will be displayed.

17- Turn ignition on and off respectively with each key to be programmed. Wait for 5 seconds with ignition on with each key. Do not wait more than 20 seconds between respective keys. After programming all keys press ENTER button to end the procedure.

NOTE : With Passat B6 cars(with smart key) while extracting pin code if there is a working key you need to put it to the ignition, if there is no working key, you need to short circuit fuses to communicate with the car through OBD. Check the figure in page 26. After extracting the pin code remove the cables from fuses(cancel short circuiting).

CAN-BUS System and Dealer CAN-BUS System Key Programming Example(Golf 5)

1 - Connect your VAG OBD-F cable to your Zed-BULL.

2 -Connect the VAG OBD-F cable to the OBD port of the car and turn ignition on. If there is an existing key turn ignition on with this key, if there is not, use a key with blank can-bus transponder (you need to use the correct can-bus transponder. In example: use VW Can-Bus transponder for Volkswagen, use Audi Can-Bus transponder for Audi....) to turn the ignition on.

3 - Switch on the VAG obd cable. Zed-BULL will be fed from the vehicle's battery, so you do not need to apply external power to zed-bull using it's power adapter or cigar lighter adapter.

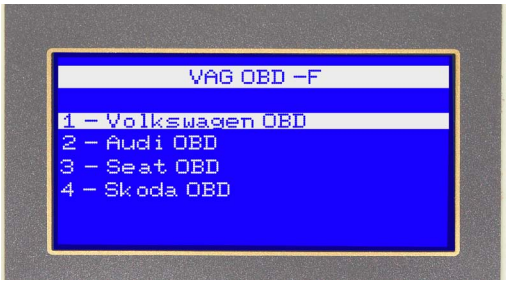
4

- Choose the 3 rd option on the main menu of Zed-BULL.

5- Choose the 10 th option on the new menu screen(please do not choose option 1 or 2, they are used for old VAG cable).

Key Programming

6 - Choose Volkswagen OBD.



7 - Choose the type of the vehicle from the list, here we select Golf 5.

Communication between Zed-BULL and the OBD cable will be controlled first. when the version and the serial number of the cable is displayed, it means communication is successfull between Zed-BULL and the cable If your VAG OBD-F cable is switched on and is not communicating(saying "Waiting for module") with Zed-BULL, please report it to your supplier.

8 - Choose **KEY PROGRAMMING** option here. Remote programming will be explained in the following sections.

9 - Even there is a working key or working keys due to the procedure all keys will be deleted and will be reprogrammed with the new ones. There is only one option in the following menu and please choose it to proceed to the following steps.

10 - You need to type the total amount of keys(existing keys+new ones)here, in example; If customer has one key and wants 2 spare keys, type 3 and press ENTER button.

11 - If the ignition is off turn it on(do not start the engine) if it is already on press ENTER button.

12 - If you do not have the pin code choose "extract automatically" option and press ENTER button.

13 - If the car is equipped with can bus system or dealer can bus system, CS will be displayed as well as pin code. Press ENTER to proceed with the next step.

14 - Including this step only blank 48 can bus transponder is used. Never Apply this process(precoding a blank can bus transponder) to customer's already working key(s)). If your car is equipped with can-bus system or dealer can-bus system you can choose **Yes, produce transponder** dand continue if you are sure that the car is equipped with can-bus system you can choose **No, I have transponder** and continue from 21 st step.

15 - If you are not sure about the vehicle's system you can choose **Yes, produce transponder** and contunie.

Key Programming

16 - If CS is 7 bytes continue from step 21.
17 - If CS is 6 bytes Zed-BULL will tell you to brute force the 7 th byte and will switch to the next screen.
External antenna is put to the ignition coil as shown in the picture below.After putting the antenna near the ignition coil press ENTER.

18 - As shown in the screen below press ENTER and put the new key with blank transponder to the ignition and turn ignition on in 10 seconds. You will see a status bar on the Zed-BULL screen showing 10 seconds time. You need to turn ignition on before the status bar is fully filled. If the necessary data is sniffed by the antenna, Zed-BULL screen will jump to next screen.

NOTE : If Zed-BULL does not switch to the next screen, turn ignition off and on again.
For Passat B6 cars, you need to put 1 transponder to Zed-BULL antenna and put original key or a blank remote key to the ignition and turn it on(cable will take the car to programming mode). After Zed-BULL writes data to transponder, you need to now put this transponder(inside the remote) and turn ignition on within 10 seconds.

19 - Turn ignition off and put the transponder to the Zed-BULL antenna as shown in the picture below and press ENTER.

20 -If the missing 7 th byte is found it will be written to the transponder, if you would like to have another copy put another blank can-bus transponder and press W button.
After completing this step we have precoded transponders which can be programmed to the car. skip to the previous menu by pressing ESC.

21 - Here the screen shown in step 15 will show up. This time press **No, I have transponder** and continue with key programming.

Key Programming

NOTE : If there is existing key always start programming with it.

NOTE : After programming keys before proceeding with remote programming, switch off and on the OBD cable and start programming remotes.

K-Line remote programming example(Golf 4' 97+)

1 - Connect your VAG OBD-F cable to your Zed-BULL.

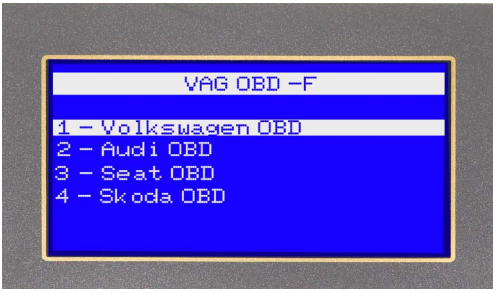
2 -Connect the VAG OBD-F cable to the OBD port of the car and turn ignition on.

3 - Switch on the VAG OBD-F cable. Zed-BULL will be fed directly from the vehicle's batter, do not apply external power to Zed-BULL using power adapter or cigar lighter adapter.

4 - Turn on your Zed-BULL and choose the third option on the main menu.

5- Choose the 10 th option(VAG-OBD-F) from the manu as shown in the picture below.

6 -Choose Volkswagen OBD



7 - Choose the type of the vehicle from the list, here we select Golf 4 97+. Communication between Zed-BULL and the OBD cable will be controlled first. when the version and the serial number of the cable is displayed, it means communication is successfull between Zed-BULL and the cable If your VAG OBD-F cable is switched on and is not communicating(saying "Waiting for module") with Zed-BULL, please report it to your supplier.

Key Programming

8 - Choose **Remote programming** from the menu below.

9 - According to the procedure even all remotes are lost, existing remotes will be deleted from the vehicle and new ones will be programmed. Due to this fact only option **Del. remotes and programme news** is selected.

NOTE : All remotes should be programmed, if there is existing remote, it is deleted and should be reprogrammed at this step.

10 - You need to type the total number of remotes to be programmed(including working remotes). In example if the customer has 1 key and asking for a spare, total remotes to be programmed is typed as 2. Press

ENTER to continue with programming.

11 - If the ignition is off, turn it on(do not start the engine!), if it is already on press ENTER button.

12 - Press Lock button of each remote for 2 seconds respectively. Do not wait more than 20 seconds between respective remotes. Press ENTER to end the procedure.

NOTE : After programming keys before proceeding with remote programming, switch off and on the OBD cable and start programming remotes.

CAN-BUS System Remote Programming Example (Golf5)

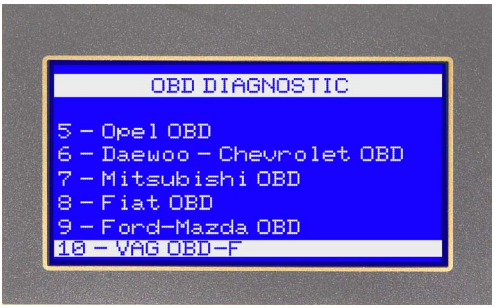
1 - Connect your VAG OBD-F cable to your Zed-BULL.

2 -Connect the VAG OBD-F cable to the OBD port of the car and turn ignition on.

3 - Switch on the VAG OBD-F cable. Zed-BULL will be fed directly from the vehicle's batter, do not apply external power to Zed-BULL using power adapter or cigar lighter adapter.

4 - Turn on your Zed-BULL and choose the third option on the main menu.

5- Choose the 10 th option(VAG-OBD-F) from the menu as shown in the picture below.



6 - Choose Volkswagen OBD.

7 - Choose the type of the vehicle from the list, here we select Golf 5. Communication between Zed-BULL and the OBD cable will be controlled first. when the version and the serial number of the cable is displayed, it means communication is successfull between Zed-BULL and the cable If your VAG OBD-F cable is switched on and is not communicating(saying "Waiting for module") with Zed-BULL, please report it to your supplier.

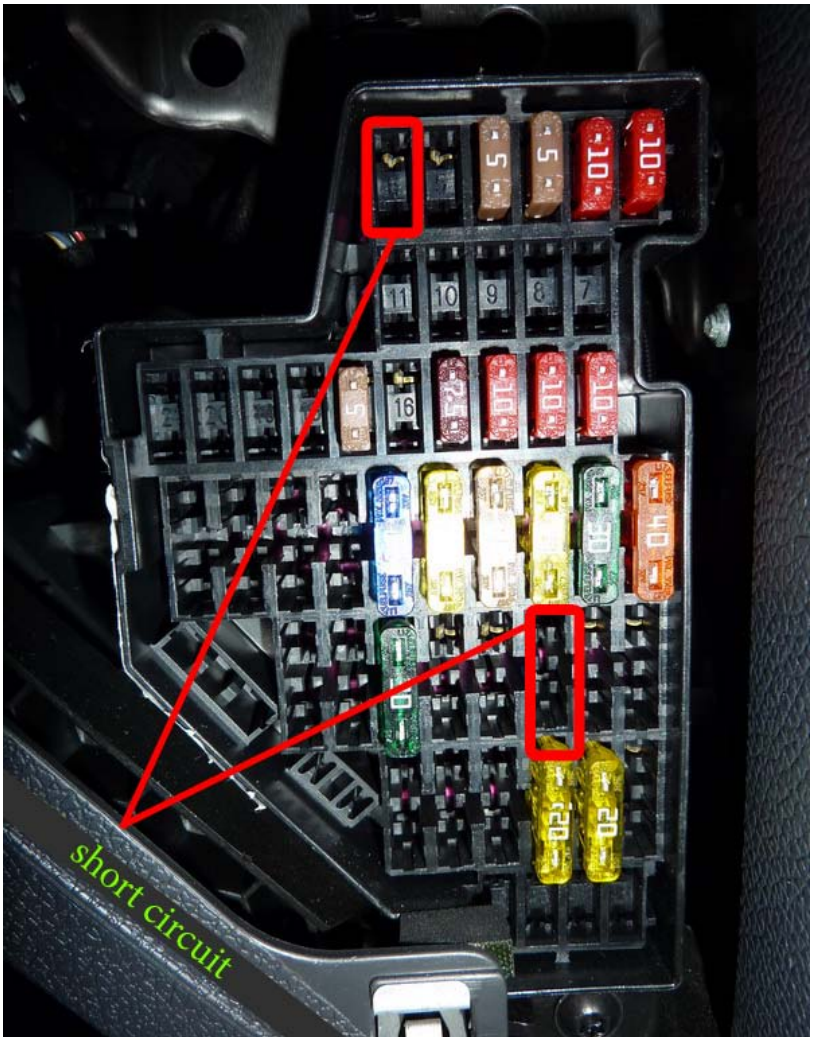
8 - Choose **Remote programming** from the menu below.

NOTE : If all remotes are deleted at step 9 customer's remotes should be reprogrammed, otherwise they will not work anymore.

9 - If you would like to delete existing remotes choose **Delete all remotes** option and press ENTER. After deleting all keys, Zed-BULL will display a message telling that all remotes are deleted. Now you can choose Add new remote option and programme new remotes one by one.

Key Programming

11 - Press the lock button of the remote to be programmed for 2 seconds and then press ENTER to end the procedure.



NOTE : For Passat B6(with smart key) if the car does not have a working key, fuses should be short circuited as shown in the picture above, to make the VAG OBD-F cable communicate with the ECU to extract the pin code and the CS.

Important Notes

For any reason(ECU might be blocked, electrical problems, flat battery, blown fuse) if pin code and CS can not be extracted via OBD, you can get the pin code and the CS from the eeprom dump by removing the ECU(supported types are listed below)

- EDC 16
- Simos 7
- Simos PPD1
- Med 9.5.10
- ME 7.1
- ME 7.5

If there is aproblem between VAG OBD-F cable and the vehicle:

1 - Make sure that the car is listed in the application list.

2 - Check the battery voltage and check the fuses.

3 - Ask the owner if someone else made something similar like you do, if yes ask the details.

4 - Ask if the car had an accident and the ECU or immobiliser unit was damaged or not.

AUDI APPLICATION LIST

MOTOR TYPE	MOTOR TYPE	ECU	FUEL	SYSTEM	PRECODED (DEALER)		TRANS.TYPE	REMOTE	TRANSPONDER
					OBD	EEPROM			
A2		EDC 15X	DIESEL	K-LINE			48	TEST	TEST
A3	1.4 TFSI	MED 17.5.5	PETROL	CAN	YES		AUDI 48 CAN BUS	TEST	TEST
	1.6 FSI	MED 9.5.10	PETROL	CAN	YES	YES	AUDI 48 CAN BUS	YES	YES
	1.8 TFSI	MED 17.5.0	PETROL	CAN	YES		AUDI 48 CAN BUS	YES	YES
	1.9 TDI PD	EDC16U1/34	DIESEL	CAN	YES	YES	AUDI 48 CAN BUS	YES	YES
	2.0 FSI	MED 9.5.10	PETROL	CAN	YES	YES	AUDI 48 CAN BUS	YES	YES
	2.0 TDI CR	EDC 17	DIESEL	CAN			AUDI 48 CAN BUS	TEST	TEST
	2.0 TDI PD	EDC16U1/31/34	DIESEL	CAN	YES	YES	AUDI 48 CAN BUS	YES	YES
	2.0 TDI PD	SIMOS PPD 1.X	PETROL	CAN	YES	YES	AUDI 48 CAN BUS	YES	YES
	2.0 TFSI	MED 17.5.0	PETROL	CAN	YES		AUDI 48 CAN BUS	YES	YES
	1.8 TFSI	MED 9.1 SINGLE	PETROL						
	1.8 TURBO	MED 7.5X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.0 TFSI	MED 9.1 SINGLE	PETROL					YES	YES
	3.2 I	ME 7.1.1	PETROL	K-LINE			48	TEST	TEST
A4	1.6 FSI	MED 9.5.10	PETROL	CAN			AUDI 48 CAN BUS	NO	NO
	1.8 TFSI	MED 17.5.0	PETROL	CAN			AUDI 48 CAN BUS	NO	NO
	1.9 TDI PD	EDC16U1/34	DIESEL	CAN			AUDI 48 CAN BUS	NO	NO
	2.0 FSI	MED 9.5.10	PETROL	CAN			AUDI 48 CAN BUS	NO	NO
	2.0 TDI PD	EDC 16U1/31/34	DIESEL	CAN			48	NO	NO
	2.0 TDI PD	SIMOS PPD 1X	PETROL	CAN			AUDI 48 CAN BUS	NO	NO
	2.0 TFSI	MED 17.5.0	PETROL	CAN			AUDI 48 CAN BUS	NO	NO
	1.8 TURBO	ME 7.5X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.0 L	ME7.5X	PETROL	K-LINE			48	TEST	TEST
	2.0 TDI CR	EDC 17	DIESEL	CAN			AUDI 48 CAN BUS	NO	NO
	2.0 TFSI	ME 9.1 SINGLE	PETROL					NO	NO
	2.4 L	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
	2.5 TDI V6	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	2.7 TDI CR	EDC17	DIESEL	CAN			AUDI 48 CAN BUS	NO	NO
	2.7 TDI CR	EDC16CP	DIESEL	CAN			AUDI 48 CAN BUS	NO	NO
	2.8 30 V	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
	3.0 TDI CR	EDC17	DIESEL	CAN			AUDI 48 CAN BUS	NO	NO
	3.0 TDI CR	EDC16CP	DIESEL	CAN			AUDI 48 CAN BUS	NO	NO
	3.0 TFSI	EDC17	DIESEL	CAN			AUDI 48 CAN BUS	NO	NO
	3.0 V6	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
A5	1.8 TFSI	MED17	PETROL	CAN			AUDI 48 CAN BUS		
	2.0 TFSI	MED17	PETROL	CAN			AUDI 48 CAN BUS		
	2.0 TDI CR	EDC17	DIESEL	CAN			AUDI 48 CAN BUS		
	2.7 TDI CR	EDC17	DIESEL	CAN			AUDI 48 CAN BUS		
A6	2.0 TDI PD	EDC 16U1/31/34	DIESEL	CAN			8E	NO	NO
	2.0 TDI PD	SIMOS PPD 1X	PETROL	CAN			8E	NO	NO
	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.0 L	ME 7.5X	PETROL	K-LINE			48	TEST	TEST
	2.0 TDI CR	EDC17	DIESEL	CAN			8E	NO	NO
	2.0 TFSI	MED 9.1 SINGLE	PETROL						
	2.4 L	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
	2.5 TDI V6	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.7 T	ME7.1.X	PETROL	K-LINE			48	TEST	TEST
	2.7 T	ME7.5.X	PETROL	K-LINE			48	TEST	TEST
	2.7 TDI CR	EDC17	DIESEL	CAN			8E	NO	NO
	2.7 TDI CR	EDC16CP	DIESEL	CAN			8E	NO	NO
	3.0 L	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
	3.0 TDI CR	EDC17	DIESEL	CAN			8E	NO	NO
	3.0 TDI CR	EDC16CP	DIESEL	CAN			8E	NO	NO
	4.2 L	ME 7.1.1	PETROL	K-LINE			48	TEST	TEST
A8	2.5 TDI V6	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	3.0 TDI CR	EDC16CP	DIESEL	CAN			AUDI 48 CAN BUS		
	3.7 L	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	4.0 TDI	EDC 16 CP	DIESEL	CAN			AUDI 48 CAN BUS		
	4.2 L	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
ALLROAD	2.5 TDI V6	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.7 T	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
	4.2 L	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
Q5	2.0 TDI	EDC17	DIESEL	CAN					
	2.0 TFSI	EDC17	DIESEL	CAN					
	3.0 TDI CR	EDC17	DIESEL	CAN					

AUDI APPLLICATION LIST

MODEL	MOTOR TYPE	ECU	FUEL	SYSTEM	PRECODED (DEALER)		TRANS.TYPE	REMOTE	TRANSPONDER
					OBD	EEPROM			
Q7	3.0 TDI CR	EDC17	DIESEL	CAN			8E	NO	NO
	3.0 TDI CR	EDC16CP	DIESEL	CAN			8E	NO	NO
	4.2 FSI V8	MED9.1 SINGLE	PETROL				8E	NO	NO
R8	4.2 V8	MED 9.1	PETROL						
RS4	2.7 T	ME 7.1X	PETROL	K-LINE			48	TEST	TEST
	4.2 V8	MED9.1	PETROL						
RS6	4.2 QUATTRO	ME 7.1.1	PETROL	K-LINE			48	TEST	TEST
S3	1.8 TURBO	ME 7.5X	PETROL	K-LINE			48	TEST	TEST
	2.0 TFSI	MED 9.1 SINGLE	PETROL						
S4	2.7 T	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	4.2 L	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	4.2 T V8	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	4.2 V8	MED9.1	PETROL						
S5	4.2 V8	MED 9.1	PETROL						
S6	4.2 L	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	4.2 QUATTRO	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	5.2 V10 FSI	MED 9.1	PETROL						
S8	4.2 L	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	5.2 V10 FSI	MED9.1	PETROL						
TT(8J)	1.8 TFSI	MED17	PETROL	CAN			AUDI 48 CAN BUS		
	2.0 TDI CR	EDC17	DIESEL	CAN			AUDI 48 CAN BUS		
	2.0 TFSI	MED9.1 SINGLE	PETROL						
TT(8N)	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	TEST	TEST
	3.2 L	ME7.1X	PETROL	K-LINE			48	TEST	TEST
TTS(8J)	2.0 TFSI	MED17	PETROL	CAN			AUDI 48 CAN BUS		
	2.0 TFSI	MED 9.1 SINGLE	PETROL						

NOTE : The vehicles listed as "Test" are expected to be covered by the VAG OBD-F cable but they are not tested on a vehicle.

SEAT APPLICATION LIST

MODEL	MOTOR TYPE	ECU	FUEL	SYSTEM	PRECODED		TRANS.TYPE	REMOTE	TRANSPONDER
					OBD	EEPROM			
ALHAMBRA	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
ALTEA	1.4 TSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
	1.8 TSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
	1.9 TDI PD	EDC16U1/34	DIESEL	CAN	YES	YES	SEAT 48 CAN BUS	YES	YES
	2.0 TDI PD	EDC16U1/34	DIESEL	CAN	YES	YES	SEAT 48 CAN BUS	TEST	TEST
	2.0 TDI PD	SIMOS PPD1X	PETROL	CAN	YES	YES	SEAT 48 CAN BUS	TEST	TEST
	2.0 TFSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
AROSA	1.4 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
CORDOBA	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	YES	YES
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	YES	YES
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
IBIZA	1.4 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
LEON	1.4 TSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	YES	YES
	1.8 TSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	YES	YES
	1.9 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE	YES	YES	SEAT 48 CAN BUS, 48	YES	YES
	2.0 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE	YES	YES	SEAT 48 CAN BUS, 48	YES	YES
	2.0 TDI PD	SIMOS PPD1X	PETROL	CAN	YES	YES	SEAT 48 CAN BUS	TEST	TEST
	2.0 TFSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
	1.6	SIMOS 7.1	PETROL	CAN	YES	YES	SEAT 48 CAN BUS	YES	YES
	1.8 20V	ME7.5X	PETROL	K-LINE			48	TEST	TEST
	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	YES	YES
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	YES	YES
	2.0 TURBO FSI	MED9.1 SINGLE	PETROL						
TOLEDO	1.9 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE	YES	YES	SEAT 48 CAN BUS, 48	YES	YES
	2.0 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE	YES	YES	SEAT 48 CAN BUS, 48	YES	YES
	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	YES	YES
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST

NOTE : The vehicles listed as “Test” are expected to be covered by the VAG OBD-F cable but they are not tested on a vehicle.

SKODA APPLICATION LIST

MODEL	MOTOR TYPE	ECU	FUEL	SYSTEM	PRECODED		TRANS.TYPE	REMOTE	TRANSPONDER
					OBD	EEPROM			
FABIA	1.9 TDI	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI DPF	EDC 17	DIESEL	CAN			SKODA 48 CAN BUS	NO	NO
	1.9 TDI PD	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
OCTAVIA	1.8 TSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
	1.9 TDI PD	EDC16U1/34	DIESEL	CAN	YES	YES	SEAT 48 CAN BUS	YES	YES
	2.0 TDI PD	EDC16U1/34	DIESEL	CAN	YES	YES	SEAT 48 CAN BUS	YES	YES
	2.0 TDI PD	SIMOS PPD1.1	PETROL	CAN	YES	YES	SEAT 48 CAN BUS	TEST	TEST
	1.8 TURBO	ME7.5.X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
OCTAVIA RS	2.0 TDI PD	SIMOS PPD 1.2	PETROL	CAN	YES	YES	SEAT 48 CAN BUS	TEST	TEST
	2.0 TDI CR	EDC17	DIESEL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
	2.0 TURBO FSI	MED9.1 SINGLE	PETROL						
ROOMSTER	2.0 TDI PD	SIMOS PPD1.2	PETROL	CAN	YES	YES	SEAT 48 CAN BUS	TEST	TEST
	1.4 TDI PD	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI DPF	EDC17	DIESEL	CAN			SEAT 48 CAN BUS	TEST	TEST
SUPERB	1.4 TSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
	1.8 TSI	MED17	PETROL	CAN	YES		SEAT 48 CAN BUS	TEST	TEST
	1.8 TURBO	ME7.5.X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.5 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST

NOTE : The vehicles listed as “Test” are expected to be covered by the VAG OBD-F cable but they are not tested on a vehicle.

VOLKSWAGEN APPLICATION LIST

MODEL	MOTOR TYPE	ECU	FUEL	SYSTEM	PRECODED (DEALER)		TRANS.TYPE	REMOTE	TRANSPONDER
					OBD	EEPROM			
BEETLE	1.9 TDI	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	2.0 8V	ME7.1.X	PETROL	K-LINE			48	TEST	TEST
	2.0 8V	ME7.5.X	PETROL	K-LINE			48	TEST	TEST
	2.5(USA)	ME 7.1.1	PETROL	K-LINE			48	TEST	TEST
BORA	2.0 TSI	MED17	PETROL	CAN	YES		VW 48 CAN BUS	TEST	TEST
	1.4 LTSI								
	1.8 I TURBO	ME 7.5X	PETROL	K-LINE			48	YES	YES
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	YES	YES
	1.9I TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.0 TDI CR	EDC17	DIESEL	CAN	YES		VW 48 CAN BUS		
CADDY	1.9 SDI	EDC16 U1/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	YES	YES
	1.9 TDI PD	EDC16 U1/34	DIESEL	CAN, K-LINE	YES	YES	VW 48 CAN BUS, 48	YES	YES
CRAFTER	2.5 TDI CR	EDC16 CP	DIESEL	CAN			VW 48 CAN BUS		
EOS	1.4 TSI	MED17	PETROL	CAN	YES			TEST	TEST
	1.6 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	TEST	TEST
	2.0 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2.0 TDI PD	EDC16 U1/34	DIESEL	CAN, K-LINE	YES	YES	48	TEST	TEST
	2.0 TDI CR	EDC17	DIESEL	CAN			VW 48 CAN BUS	TEST	TEST
	2.0 TFSI	MED 9.1 SINGLE	PETROL						
GOLF 4	1.9 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	TEST	TEST
	2.0 TDI PD	EDC16 U1/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	YES	YES
	1.4 L								
	1.8 I TURBO	ME7.5X	PETROL	K-LINE			48	YES	YES
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	YES	YES
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.0 8V	ME7.1.1, ME7.5	PETROL	K-LINE			48	TEST	TEST
	3.2 I(R32)	ME 7.1.1	PETROL	K-LINE			48	TEST	TEST
	2.8 12 V	ME7.1X	PETROL	K-LINE			48	TEST	TEST
	2.8 24 V	ME7.1X	PETROL	K-LINE			48	TEST	TEST
GOLF 5	1,4I TSI	MED17	PETROL	CAN			VW 48 CAN BUS	YES	YES
	1,4 TURBO TSI	MED17	PETROL	CAN	YES		VW 48 CAN BUS	YES	YES
	1,6 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	1,9 TDI PD	EDC16U1/31/34	DIESEL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2,0 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2,0 TDI PD	EDC16U1/31/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	YES	YES
	2,0 TSI	MED17	PETROL	CAN	YES		VW 48 CAN BUS	YES	YES
	1,4I	ME 7.5X	PETROL	K-LINE			48	YES	YES
	2,0 TFSI	MED 9.1 SINGLE	PETROL						
GOLF 6	1.4 TSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	YES	YES
	2.0 TDI CR	EDC 17	DIESEL	CAN			VW 48 CAN BUS		
JETTA 4	1.9 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	YES	YES
	2.0 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	YES	YES
	1.4 TSI			CAN	YES		VW 48 CAN BUS	YES	YES
	1.8I TURBO	ME7.5X	PETROL	K-LINE			48	YES	YES
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	YES	YES
	2.0 8V	ME7.1X/ME7.5X	PETROL	K-LINE			48	YES	YES
	2.0 TDI CR	EDC17	DIESEL	CAN			VW 48 CAN BUS	TEST	TEST
	2.0 TSI	MED17	DIESEL	CAN	YES		VW 48 CAN BUS	YES	YES
	2.8 12V	ME7.1	PETROL	K-LINE			48	YES	YES
	2.8I 24V	ME7.1.1X	PETROL	K-LINE			48	TEST	TEST
JETTA 5	1.6 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2.0 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2.0 TDI PD	SIMOS PPD 1X	DIESEL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2.0 TFSI	MED 9.1 SINGLE	PETROL						
	2.5(USA)	ME7.1.1	PETROL	K-LINE			48	TEST	TEST
LUPA	1.2 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.4 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
PASSAT B5	2.0 TFSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	YES	YES
	1.9 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	YES	YES
	2.0 TDI PD	EDC16U1/31/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	YES	YES
	1.8 I TURBO	ME7.5.X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.5 TDI V6	EDC15X	DIESEL	K-LINE			48	YES	YES
	2.8 30V	ME 7.1X	PETROL	K-LINE			48	YES	YES
	4.0 V8	ME 7.1.X	PETROL	K-LINE			48	TEST	TEST

VOLKSWAGEN APPLICATION LIST

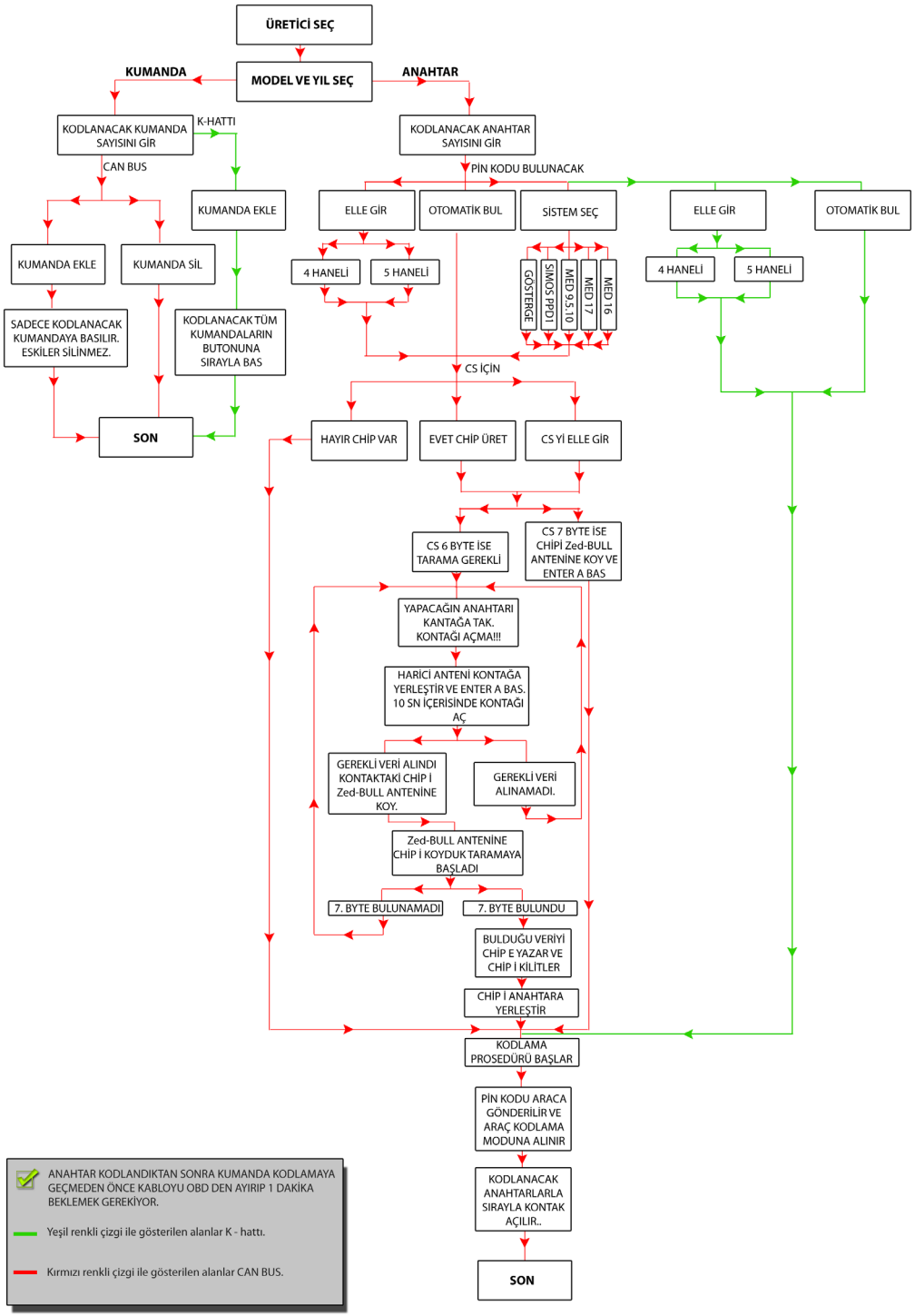
MODEL	MOTOR TYPE	ECU	FUEL	SYSTEM	PRECODED (DEALER)		TRANS.TYPE	REMOTE	TRANSPONDER
					OBD	EEPROM			
PASSAT B6	1.6 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	1.8 TFSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	YES	YES
	1.9 TDI PD	EDC 16 U1/34	DIESEL	CAN, K-LINE	YES	YES	VW 48 CAN BUS, 48	YES	YES
	2.0 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2.0 TDI PD	EDC16U1/31/34	DIESEL	CAN, K-LINE	YES	YES	VW 48 CAN BUS, 48	YES	YES
	2.0 TDI PD	SIMOS PPD1.X	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2.0 TFSI	MED 9.1 SINGLE	PETROL					YES	YES
PASSAT CC	2.0 TSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	YES	YES
	2.0 TDI CR	EDC 17	DIESEL	CAN			VW 48 CAN BUS		
PASSAT(3C)	2.0 TDI CR	SIMOS PPD 1X	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	2.0 TSI	MED 17	PETROL	CAN			VW 48 CAN BUS	TEST	TEST
PHAETON	5.0 TDIV 10	EDC 16U1	DIESEL	CAN	YES	YES	VW 48 CAN BUS	TEST	TEST
	3.0 TDI CR	EDC 16 CP	DIESEL	CAN	YES	YES	VW 48 CAN BUS	TEST	TEST
	3.0 TDI CR	EDC17	DIESEL	CAN			VW 48 CAN BUS	TEST	TEST
	3.2 I	ME 7.1.1	PETROL	K-LINE			48	TEST	TEST
POLO(6N)	1.4 I TDI PD	EDC 15X	DIESEL	K-LINE	YES		48	YES	YES
	1.9 TDI PD	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
POLO(9N)	1.4 TDI PD	EDC15X	DIESEL	K-LINE	YES		48	YES	YES
	1.8 TURBO(TDI)	ME7.5X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC17	DIESEL	CAN			VW 48 CAN BUS	TEST	TEST
SCIROCCO	1.4 TSI	MED17	PETROL	CAN	YES		VW 48 CAN BUS	NO	NO
	2.0 TSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	NO	NO
	2.0 TDI CR	EDC17	DIESEL	CAN			VW 48 CAN BUS	NO	NO
SHARAN	2.0 TDI PD	EDC16U31	DIESEL	CAN		YES	VW 48 CAN BUS	TEST	TEST
	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	TEST	TEST
	1.9 TDI	EDC 15X	DIESEL	K-LINE			48	TEST	TEST
	1.9 TDI PD	EDC15X	DIESEL	K-LINE			48	TEST	TEST
	2.8 24 V	ME7.1X	PETROL	K-LINE			48	TEST	TEST
T4(TRANSPORTER	2.5 I TDI	EDC 15X	DIESEL	K-LINE			44	NO	NO
T5(TRANSPORTE	1.9 TDI PD	EDC16U1/34	DIESEL	K-LINE		YES	48	YES	YES
R, CARAVELLE)	2.5 TDI CR	EDC16U1/31/34	DIESEL	K-LINE		YES	48	YES	YES
TIGUAN	1.4 TFSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	TEST	TEST
	2.0 TFSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	TEST	TEST
	2.0 TSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	TEST	TEST
	2.0 TDI CR	EDC 17	DIESEL	CAN			VW 48 CAN BUS		
TOUAREG	2.5 TDI	EDC16U1/31	DIESEL	CAN		YES	VW 48 CAN BUS	NO	NO
	3.0 TDI CR	EDC 16 CP	DIESEL	CAN		YES	VW 48 CAN BUS	NO	NO
	5.0 TDI PD V10	EDC 16U1/31	DIESEL	CAN		YES	VW 48 CAN BUS	NO	NO
	3.0 TDI CR	EDC17	DIESEL	CAN			VW 48 CAN BUS	NO	NO
	3.2 I	ME7.1.1	PETROL	K-LINE			48		
	4.2 V8	ME 7.1.1	PETROL	K-LINE			48	NO	NO
TOURAN	1.4 TSI	MED 17	PETROL	CAN	YES		VW 48 CAN BUS	TEST	TEST
	1.6 FSI	MED 9.5.10	PETROL	CAN	YES	YES	VW 48 CAN BUS	YES	YES
	1.9 TDI PD	EDC16U1/34	DIESEL	CAN		YES	VW 48 CAN BUS	TEST	TEST
	2.0 FSI	MED 9.5.10	PETROL	CAN		YES	VW 48 CAN BUS	TEST	TEST
	2.0 TDI PD	EDC16U1/34	DIESEL	CAN, K-LINE		YES	VW 48 CAN BUS, 48	TEST	TEST
	2.0 TDI PD	SIMOS PPD1X	PETROL	CAN		YES	VW 48 CAN BUS	TEST	TEST
	1.8 TURBO	ME7.5X	PETROL	K-LINE			48	TEST	TEST

NOTE : The vehicles listed as "Test" are expected to be covered by the VAG OBD-F cable but they are not tested on a vehicle.

User Notes

NOTE:

PROSEDÜR AKIŞ DİYAGRAMI


ÜRETİCİ SEÇ
MODEL VE YIL SEÇ
KUMANDA
ANAHTAR
KODLANACAK KUMANDA SAYISINI GİR
K-HATTI
CAN BUS
KUMANDA EKLE
KUMANDA EKLE
KUMANDA SİL
SADECE KODLANACAK KUMANDAYA BASILIR. ESKİLER SİLİNMEZ.
KODLANACAK TÜM KUMANDALARIN BUTONUNA SIRAYLA BAS
SON
KODLANACAK ANAHTAR SAYISINI GİR
PİN KODU BULUNACAK
ELLE GİR
OTOMATİK BUL
SİSTEM SEÇ
4 HANELİ
5 HANELİ
GÖSTERGE
SİMOS PPD1
MED 9.5.10
MED 17
MED 16
ELLE GİR
OTOMATİK BUL
4 HANELİ
5 HANELİ
CS İÇİN
HAYIR CHİP VAR
EVET CHİP ÜRET
CS Yİ ELLE GİR
CS 6 BYTE İSE TARAMA GEREKLİ
CS 7 BYTE İSE CHİPİ Zed-BULL ANTENİNE KOY VE ENTER A BAS
YAPACAĞIN ANAHTARI KANTAĞA TAK. KONTAĞI AÇMA!!!
HARİCİ ANTENİ KONTAĞA YERLEŞTİR VE ENTER A BAS. 10 SN İÇERİSİNDE KONTAĞI AÇ
GEREKLİ VERİ ALINDI KONTAKTAKİ CHİP İ Zed-BULL ANTENİNE KOY.
GEREKLİ VERİ ALINAMADI.
Zed-BULL ANTENİNE CHİP İ KOYDUK TARAMAYA BAŞLADI
7. BYTE BULUNAMADI
7. BYTE BULUNDU
BULDUĞU VERİYİ CHİP E YAZAR VE CHİP İ KİLİTLER
CHİP İ ANAHTARA YERLEŞTİR
KODLAMA PROSEDÜRÜ BAŞLAR
PİN KODU ARACA GÖNDERİLİR VE ARAÇ KODLAMA MODUNA ALINIR
KODLANACAK ANAHTARLARLA SIRAYLA KONTAK AÇILIR..
SON
ANAHTAR KODLANDIKTAN SONRA KUMANDA KODLAMAYA GEÇMEDEN ÖNCE KABLOYU OBD DEN AYIRIP 1 DAKİKA BEKLEMEK GEREKİYOR.
Yeşil renkli çizgi ile gösterilen alanlar K - hattı.
Kırmızı renkli çizgi ile gösterilen alanlar CAN BUS.